

NanoSUN FILLSAFE FUELLING HOSES



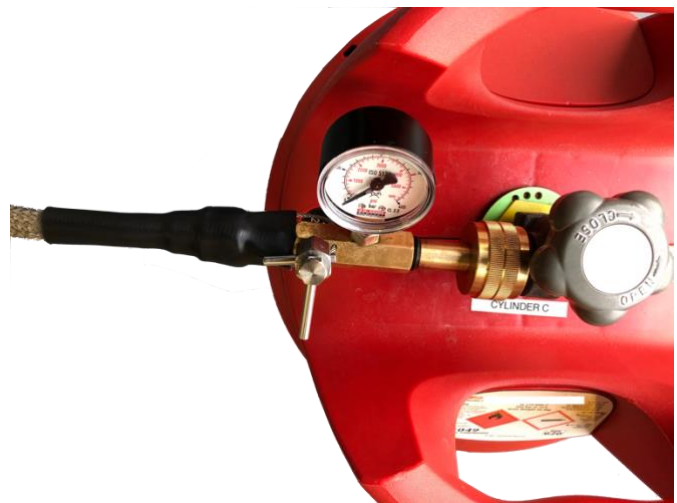
NanoSUN's advanced FillSafe Fuelling Hoses are engineered to safely and easily refuel hydrogen tanks from hydrogen cylinders.

The hoses use a simple decant method to channel hydrogen into customers tanks. The fill efficiency is dependent on the pressure in the filling cylinder.

The FillSafe Hoses are capable of refuelling up to a maximum working pressure of 300 bar. Lower pressure variations are also available.

Key Features

- The **lowest cost** technical solution for hydrogen refuelling
- **Simple** to use
- **Flow rate controlled** to **safely** fill all Type 4 hydrogen cylinders
- Intrinsically **safe** from over-pressurisation



System Specification

	EU Spec (bar)		US Spec (bar)	
Inlet Pressure	300	200	414	414
Outlet Pressure	300	200	414	300
Inlet Connection	ISO 5145 No.38	CGA 350	CGA 703	CGA 703
Flow Restrictor	Sized to meet customer cylinder and fill rate requirements			
Outlet Connection	Options available include 8mm PCP coupler or RBL03/06			
Dimensions (m)	1.2-1.5	1.2-1.5	1.2-1.5	TBC
Weight (kg)	1.1	1.1	1.2-1.45	TBC

**Contact NanoSUN for customer specified alternative inlet & outlet connections*

System Features

Incorporated anti-whip cable along hose with earthing wire

Built in filter to protect flow restrictor and hydrogen tank from dirt

Simple to operate bleed valve to purge hose of any gas once filling is complete

Both standard input and output connections are simple and quick to connect

Microbore design limits volume of gas within hose and prevents air inclusion

Suitable for H₂ gas as a fuel for PEM fuel cells

Flow restrictor to control flow rate appropriate for the filling of Type 3 composite cylinders

For filling Type 4 cylinders please contact us for further advice*

**Flow rate modelling available for customers to ensure fill rates are suitable for any type of cylinder*

Ordering Information

Part No	Description
CON-300-300-1WP	300 bar working pressure decant hose (EU Spec)
CON-200-200-1WP	200 bar working pressure decant hose (US Spec)
CON-414-414-1WR	414 bar working pressure decant hose (US Spec)
CON-414-300-1WP	414 to 300 bar working pressure decant hose (US Spec)

Compliance

The NanoSUN FillSafe Fuelling Hoses are designed and manufactured in accordance with **Pressure Equipment Directive (2014/68/EU)** and **Sound Engineering Practice**.

Get More Information:



www.nanosun.co.uk